

GA SAFETY TECHNOLOGY

Tim Timmerman

Cirrus Aircraft

Focus Areas

- Redundancy
- Situational Awareness
- Survivability
- Envelope Protection

Redundancy

- Redundant electrical system
 - Dual alternator, dual battery, multi-bus
- Multiple GPS
- Dual AHARS
- Dual flight displays
- Backup instruments



Situational Awareness

- Moving maps
- Datalink weather
- Traffic and terrain
- Synthetic Vision
- Enhanced Vision
- Hypoxia prevention
 - Auto descent to safe altitude
- Opportunities
 - TCAS



Survivability

- Occupant Protection
 - 26g seats
 - Airbag Seatbelts
 - De-lethalizing the cabin
 - LATCH system for child seats
- Airframe Parachutes
- Opportunities
 - Allowance for child booster seats in 3 point or 4 point harness rear seats



Envelope Protection

- New autopilots and servos provide great opportunity
- Keep airplane inside normal flight envelope
- Prevent unusual attitudes
- Prevent stalls
- Prevent spins

